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## Product Description Sheet

### Fixmaster® Pipe Repair Kit

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#### PRODUCT DESCRIPTION

LOCTITE® Fixmaster® Pipe Repair Kit is recommended for reliable, temporary repairs of metal, plastic and composite pipes. Pipe Repair Kit includes a urethane impregnated fiberglass tape, designed to make on-site pipe repairs in just minutes without the use of tools or specially trained personnel. Pipe Repair Tape is activated by water and applied by simply wrapping the fiberglass tape around the damaged area. Material cures in approximately 30 minutes to a durable finish. Also included in the Pipe Repair Kit is a one-use size of Loctite Metal Magic™ for filling holes and cracks prior to the application of the fiberglass tape. Used in combination, the fiberglass tape and epoxy stick provide a reliable and fast pipe repair system under typical dry service temperatures of -29° to +121°C (-20° to +250°F). Pipe Repair Kit should not be used on a pipeline that is carrying caustic, hazardous or otherwise harmful materials.

#### Advantages:

- Pipes are back in service within an hour.
- Does not require special training or personnel.
- Minimizes lost production time due to unscheduled shutdown.
- Conforms to odd shapes.
- Superior adhesion - forms a solid bond to steel, cast iron, stainless steel, concrete, and clean and abraded bronze, copper, and aluminum.
- Stops leaks and reinforces pipe couplings.
- Adheres and cures under water.
- Great pressure retention.
- Can be sanded & painted as required.

#### TYPICAL APPLICATIONS

- Seals cracked castings, tanks, vessels, valves, and pipes.
- Repairs pipe joints.
- Reinforces tanks, vessels, valves, pipes, joints, and elbows.

#### Limitations:

- Urethane impregnated tape and Magic Metal Steel are not approved for direct contact with potable water.

#### DIRECTIONS FOR USE

##### *Read thoroughly before opening package*

1. Turn off pressure in pipeline and dry the area to be repaired.
2. For best results, clean and prep the area thoroughly as follows: Abrade the pipe with sandpaper or file to achieve a rough profile and clean the surface with an oil-free solvent. For maximum adhesion, the prepared area should be approximately 3 to 4 times the size of the damaged area.
3. To halt low pressure leaks or fill cracks and voids, use the Metal Magic™ epoxy stick included in the kit. The mechanical bond that is created in this step is critical to the performance of the repair system. Remove the wrapping from the Metal Magic then simply mix and knead the epoxy stick until it is uniform in color. Press the mixed epoxy firmly into the crack, hole or void.
4. While wearing gloves, open foil pouch and quickly activate Pipe Repair Tape by soaking in room temperature water for 20 seconds before applying. *Please note that after pouch is opened the tape will start to set when exposed to moisture in the atmosphere; therefore, it is important to work as quickly as possible.*
5. Apply the Pipe Repair Tape by firmly wrapping it around the damaged area, extending several inches beyond repair. For a firm wrap, allow the tape to stretch or extend slightly as it is wrapped. Wrap the tape a minimum of 4 times around the pipe or built up 3-4 times the wall thickness of the pipe, whichever is greater. With gloved hand, keep working the urethane back into the tape while molding and pressing the tape until it has lost its initial tackiness. Pipe Repair Tape will be fully hardened in approximately 30 minutes, and the pipe can be returned to service within an hour.

**Note:** *Fixmaster Pipe Repair is intended as a temporary repair and cannot replace permanent pipe. Severely damaged pipelines or repaired pipes carrying harmful materials should be replaced as soon as possible.*

#### PROPERTIES OF UNCURED MATERIAL

Feature	Typical Value
Appearance	Neon Yellow Tape

#### TYPICAL PERFORMANCE

Property	Typical Value
Tensile Strength, ASTM 638-111, psi (N/mm <sup>2</sup> )	6,000 (41.4)
Maximum Pressure, 2" diameter pipe w/ 1/8 inch diameter hole, psi (N/mm <sup>2</sup> )	2,700 (18.6)
Hardness, shore D	84
Set time, min	3 - 4
Cure Time, minutes	30

\* Pressure rating depends on type of pipe and type of damage.

\*\* Dry time is affected by the temperature of the application. Temperatures under 10°C (50°F) will result in a substantially longer cure time. Temperatures over 27°C (80°F) will result in shorter cure time.

**GENERAL INFORMATION**

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

**Ordering Information**

Part Number	Container Size
96321	2"Wx6"L, 3 ounce roll
96322	4"Wx12"L, 8 ounce roll

**Storage**

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. Product is intended for a single application and any unused tape would not be suitable for use at a future date.

**Data Ranges**

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

**Note**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. One or more United States or foreign patents or patent applications may cover this product.